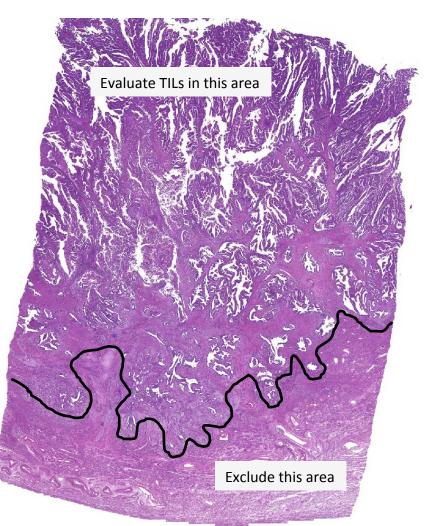
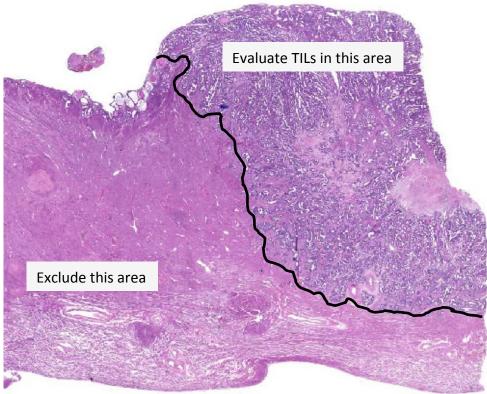
# Evaluation of Tumor Infiltrating Lymphocytes (TILs) in Endometrial Carcinoma

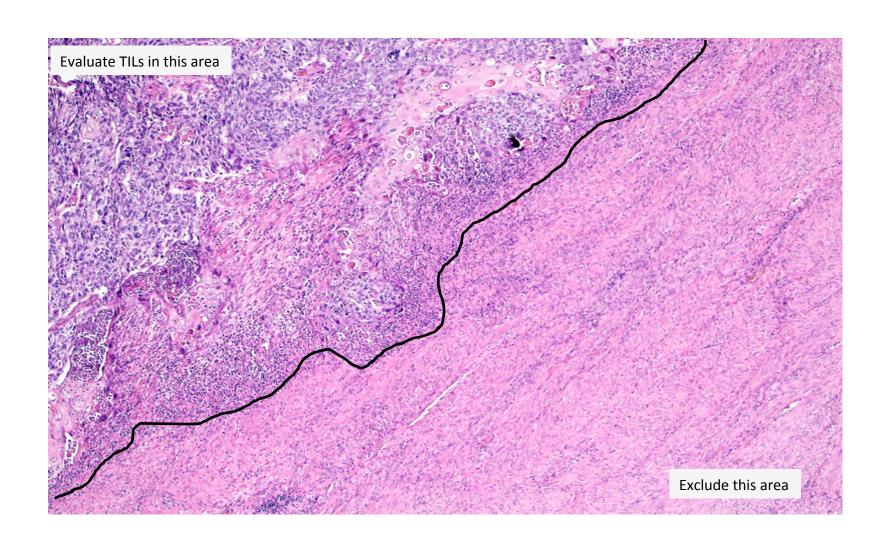
Guidelines for TILs assessment from the "International Immuno-Oncology Biomarker Working Group"

Author: Koen van de Vijver<sup>1</sup>
1-Netherlands Cancer Institute

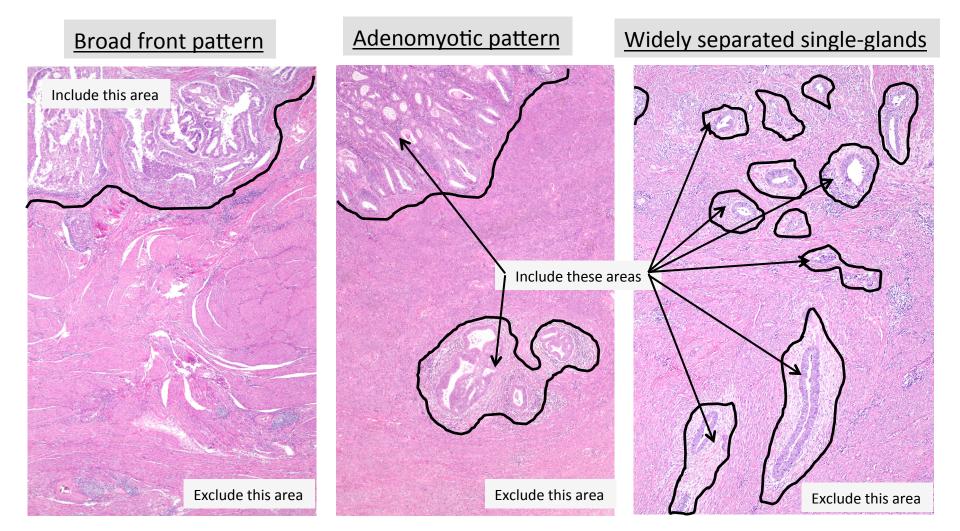


Evaluate TILs within the borders of the tumor, both in the central tumor and at the invasive margin.



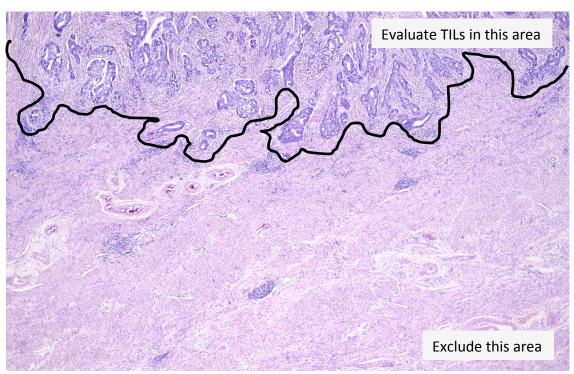


Patterns of myo-invasion: evaluate TILs in the connective tissue just beneath the epithelial layer within 1mm (invasive margin)



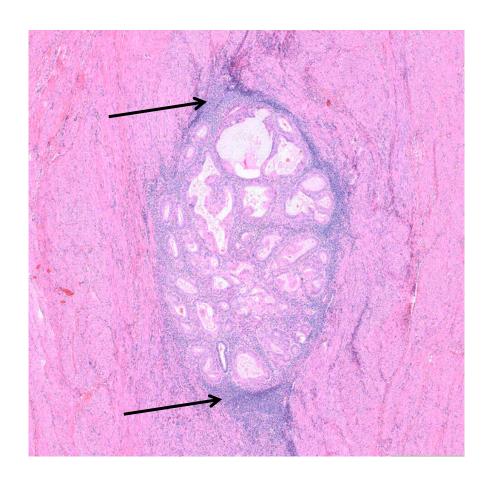
Immune infiltrates outside of the tumor borders are not included.



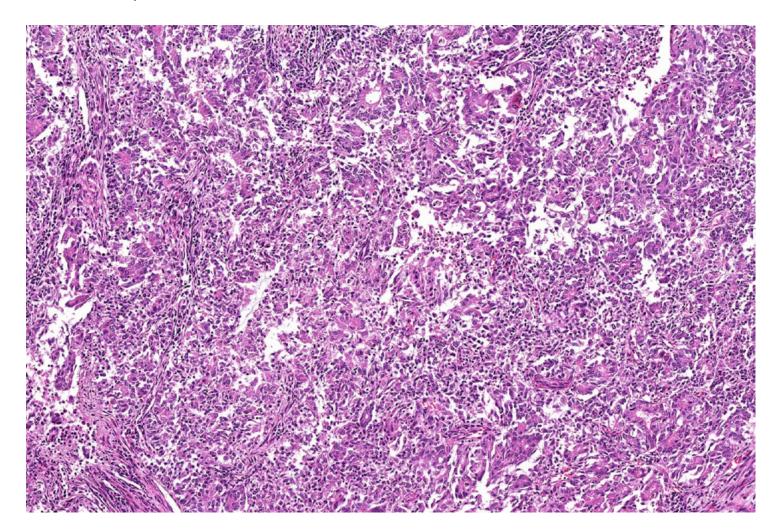


Do not include perivascular immune infiltrates, often present around lymphovascular space invasion (LVSI).

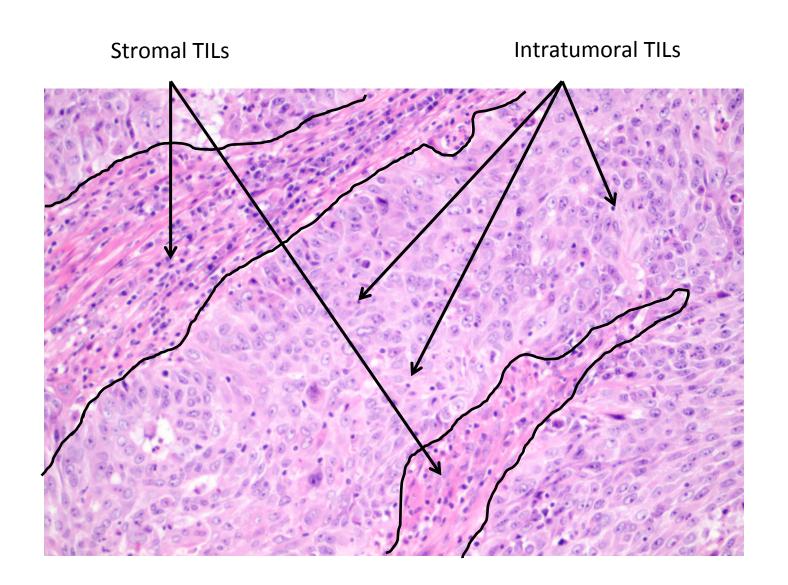
Be aware of tumor present in adenomyosis: small endometrial stromal cells may mimic immune cells



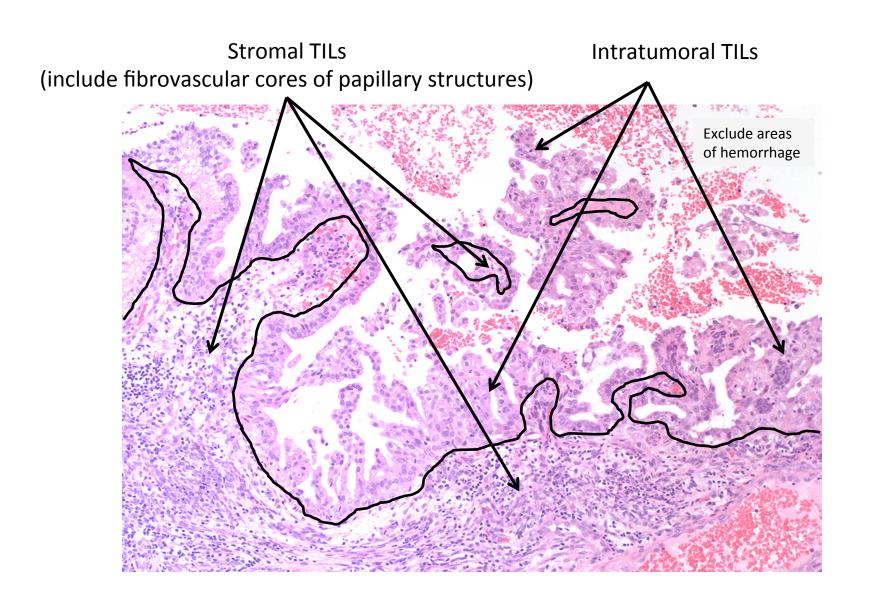
Do not use areas with poor fixation



## **Determine the localization of the TILs**

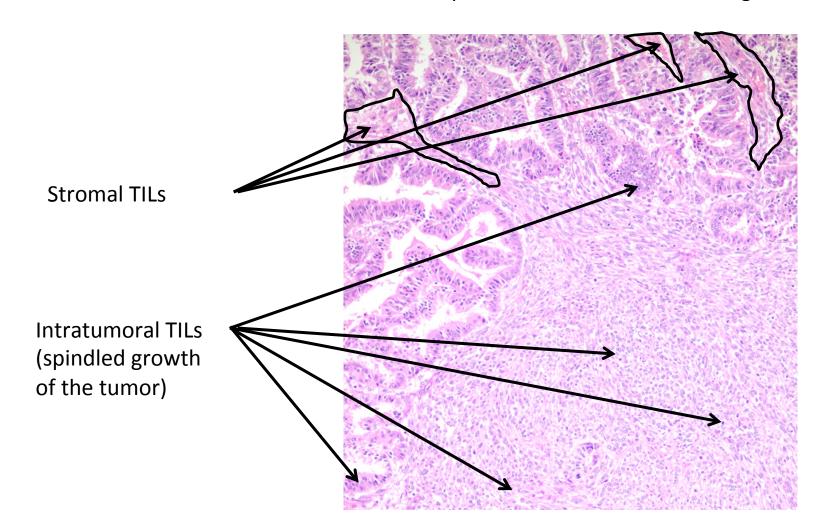


#### Determine the localization of the TILs



#### Determine the localization of the TILs

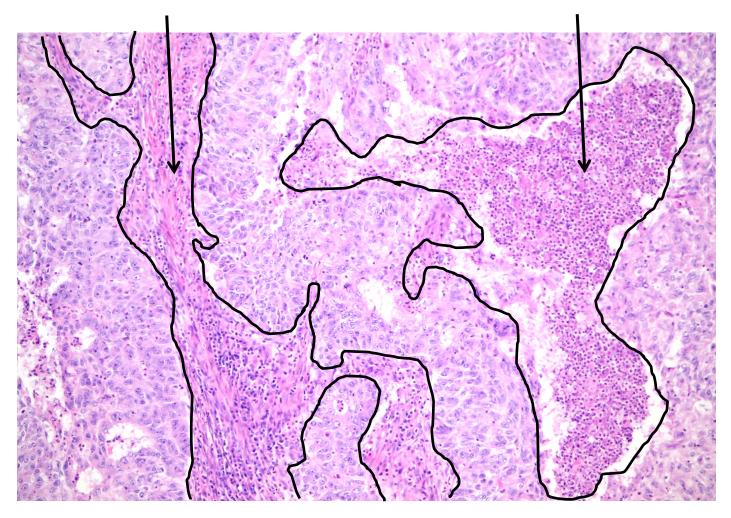
Be aware of endometrial carcinomas with a spindled, sarcomatoid or solid growth



# Determine type of inflammatory infiltrate

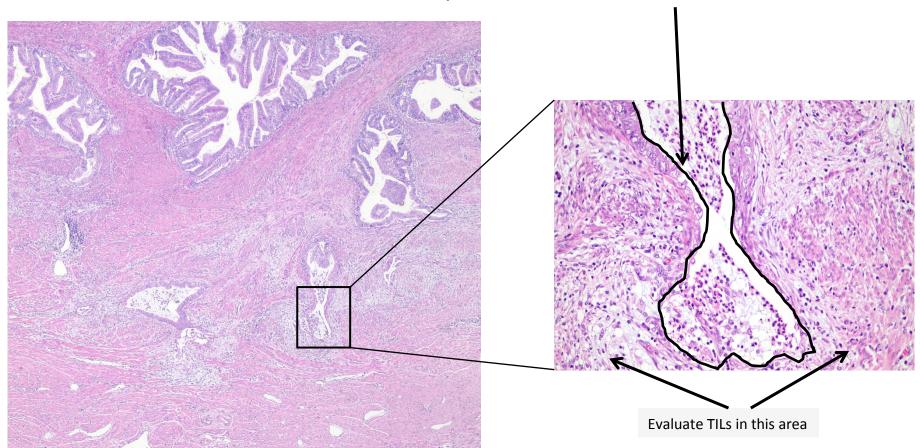
Include only mononuclear infiltrate (lymphocytes & plasma cells)

Exclude areas of necrosis for evaluation of TILs



# Determine type of inflammatory infiltrate

Score only mononuclear infiltrate: a MELF pattern of invasion is often accompanied by a neutrophilic infiltrate: exclude this area



(MELF = microcystic, elongated and fragmented)